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*Di Fabbrizio, G.; Narayanan, S.; Ruscitti, P.; Kamm, C.; Buntschuh, B.; Hubbell, J.;
Wright, J.; Hamaker, J.;*
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on ,
Volume: 2 , 30 July-2 Aug. 2000
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[Abstract]   [PDF Full-Text (512 KB)] **IEEE CNF**

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1   The clearinghouse: a decentralized agent for locating named objects in a distributed   ☐
environment
Derek C. Oppen, Yogen K. Dalal
July 1983   **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 3

Full text available: 📄 pdf(1.73 MB)   Additional Information: full citation, references, citings, index terms

2   Directory-Assisted Abbreviated Name Entry: Telephone dialing by name   ☐
Philip A. Coates
January 1978 **Proceedings of the 1978 annual conference - Volume 2**

Full text available: 📄 pdf(590.57 KB)   Additional Information: full citation, abstract, index terms

A proposal for a novel, non-standard computer application which could become very
widespread. The application involves a method for telephone dialing by typing in an
abbreviated form of the name of the party being called rather than dialing a 7-digit
telephone number. This paper (1) proposes a design for such an application, (2) describes in
non-technical terms some terminal and microcomputer configurations for data entry, (3)
lists 7 major advantages over numeric dialing, (4) argues for th ...

Keywords: Data entry techniques, Display terminal applications, Future computer
applications, Information retrieval systems, Microcomputers and intelligent terminals,
Telephone dialing, Telephone interconnect applications, Telephony

3   Copyright law and electronic compilations of data   ☐
Pamela Samuelson
February 1992 **Communications of the ACM**, Volume 35 Issue 2

Full text available: 📄 pdf(4.85 MB)   Additional Information: full citation, citings, index terms

4   Context and Location: Intelligent pervasive middleware for context-based and localized ☐
telematics services
Chatschik Bisdikian, Isaac Boamah, Paul Castro, Archan Misra, Jim Rubas, Nicolas Villoutreix,
Danny Yeh, Vladimir Rasin, Henry Huang, Craig Simonds
September 2002 **Proceedings of the 2nd international workshop on Mobile commerce**

Full text available: 📄 pdf(565.14 KB)   Additional Information: full citation, abstract, references, index terms

Telematics is arguably the next-wave in mobile computing: with most cars already equipped

with multiple embedded computing platforms, we shall witness the development of a variety of mobile services and applications with significant commercial potential. Telematics will only become a commercial reality when the underlying architecture is able to address significant concerns related to the security and privacy of telematics data, and is able to provide context information from and to a large numb ...

Keywords: pervasive computing, telematics

5 Can present methods for library and information retrieval service survive? (Panel)
Jack Belzer
January 1971 **Proceedings of the 1971 26th annual conference**
Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, index terms

When the need of the research people for keeping in touch with current and ongoing research in their field started to become acute new methods of librarianship were indicated. Progress of all research and their results are being reported at conferences in proceedings, in professional journals and in special reports. Because of the large volume of these materials, locating specific items of interest within this great bulk, to a scientist conducting research is of the essence. In depth indexi ...

6 Virtual enterprises: challenges from a database perspective
Ralf Neubert, Oliver Langer, Otmar Görlitz, Wolfgang Benn
January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises**, Volume 23 Issue 6
Full text available: pdf(971.58 KB)   Additional Information: full citation, abstract, references

Non-hierarchical Regional Production Networks are the vision of a Virtual Enterprise (VE) model followed in a collaborative research project, that has been launched in January 2000 at the Chemnitz University of Technology. The aim of the project is to develop a model that makes small and medium sized enterprises in a region as competitive as large-scale companies. A cooperation of various complementary small VE units, so called competence cells, is considered as a network. This paper sketches th ...

Keywords: VE models, adaptive multi-dimensional indexing, business process re-engineering, infrastructure for cooperation formation, semistructured databases, virtual information management infrastructure

7 Community-based service location
Munindar P. Singh, Bin Yu, Mahadevan Venkatraman
April 2001 **Communications of the ACM**, Volume 44 Issue 4
Full text available: pdf(85.31 KB)   Additional Information: full citation, references, citings, index terms
html(48.28 KB)

8 Reproducing color images as duotones
Joanna L. Power, Brad S. West, Eric J. Stollnitz, David H. Salesin
August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**
Full text available: pdf(2.74 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Neugebauer model, color printing, color reproduction, duotone, gamut mapping

9

Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Full text available: pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

10 SW 2 - An object-based programming environment

Mark R. Laff, Brent Hailpern

June 1985 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 Issue 7

Full text available: pdf(954.26 KB)   Additional Information: full citation, abstract, references, index terms

Programming systems traditionally deal with only a few different types of data objects. Operating-system command languages, for example, are concerned with files and programs. Typical programming languages deal with computer-related objects such as integers, strings, arrays, and records. This is in sharp contrast to the variety of real-world objects that people reason about. Smallworld is a programming environment in which the real world is represented by objects that have ...

11 Geographic base files and the world of Polk

Morton A Meyer

January 1980 **Proceedings of the ACM 1980 annual conference**

Full text available: pdf(666.03 KB)   Additional Information: full citation, abstract, index terms

Despite the fact that R. L. Polk & Co. is an international organization operating in western Europe, Canada and Australia as well as the United States, and has been a going and growing concern for close to 110 years, it is highly probable that most members of ACM have never heard of us. The reason, of course, is very simple. Each organization impinges only very lightly on the interests of the other. There are three divisions within Polk which rely upon computerized geographic ...

12 Mining frequent neighboring class sets in spatial databases

Yasuhiko Morimoto

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(499.61 KB)   Additional Information: full citation, abstract, references

We consider the problem of finding neighboring class sets. Objects of each instance of a neighboring class set are grouped using their Euclidean distances from each other. Recently, location-based services are growing along with mobile computing infrastructure such as cellular phones and PDAs. Therefore, we expect to see the development of spatial databases that contains very large number of access records including location information. The most typical type would be a database of point objects ...

13 Software engineering and middleware: a roadmap

Wolfgang Emmerich

May 2000

Proceedings of the conference on The future of Software engineering

Full text available: pdf(1.34 MB)   Additional Information: full citation, references, citings, index terms

14 Living Web: supporting Internet-based user-centered design

Jeffrey D. Smith, Kenji Takahashi, Eugene Liang

April 1999 **ACM SIGGROUP Bulletin,** Volume 20 Issue 1

Full text available: pdf(624.17 KB)   Additional Information: full citation, abstract, index terms

In this paper, we describe an Internet-based platform and applications which address problems encountered in user-centered design. The issues of coordination and management, variety of representations, and the iterative nature of the design process are discussed along with solutions provided by our approach. We give actual examples of usage of our system and some issues for future consideration.

Keywords: HCI, WWW, artifacts, collaboration, multimedia

15 Online tracking of mobile users

Baruch Awerbuch, David Peleg

September 1995 **Journal of the ACM (JACM),** Volume 42 Issue 5

Full text available: pdf(2.65 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This paper deals with the problem of maintaining a distributed directory server, that enables us to keep track of mobile users in a distributed network. The paper introduces the graph-theoretic concept of regional matching, and demonstrates how finding a regional matching with certain parameters enables efficient tracking. The communication overhead of our tracking mechanism is within a polylogarithmic factor of the lower bound.

Keywords: bounded packet header, bounded protocol, ideal transmission cost, lookahead, non-FIFO channels, receiver-driven protocol, recoverable protocol, recovery cost, sequence transmission problem

16 An analysis of user input to an X.500 white pages directory service

Paul Barker

April 1995 **IEEE/ACM Transactions on Networking (TON),** Volume 3 Issue 2

Full text available: pdf(1.68 MB)   Additional Information: full citation, references, index terms, review

17 Applying an information gathering architecture to Netfind: a white pages tool for a changing and growing Internet

Michael F. Schwartz, Calton Pu

October 1994 **IEEE/ACM Transactions on Networking (TON),** Volume 2 Issue 5

Full text available: pdf(1.71 MB)   Additional Information: full citation, references, citings, index terms, review

18 Concurrent online tracking of mobile users

Baruch Awerbuch, David Peleg

August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols,** Volume 21 Issue 4

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms

19 A yellow-pages service for a local-area network
L. L. Peterson
August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the
ACM workshop on Frontiers in computer communications technology,**
Volume 17 Issue 5

Full text available: pdf(822.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

We introduce a yellow-pages service that maps service names into server addresses. The service is novel in that it associates a set of attributes with each server. Clients specify the attributes the server should possess when requesting a service and the yellow-pages service determines what servers satisfy the request. In addition to describing the implementation of the yellow-pages service within a local-area network, we show how the service can be integrated with the available internet co ...

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